

0590  
0626

# 13



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,354

DATE: 06/11/2002

TIME: 14:03:07

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF3\06112002\I805354.raw

ENTERED

3 <110> APPLICANT: Arnaout, M. Amin  
 4 Li, Rui  
 5 Xiong, Jian-Ping  
 7 <120> TITLE OF INVENTION: HIGH AFFINITY INTEGRIN POLYPEPTIDES AND USES THEREOF  
 9 <130> FILE REFERENCE: 00786-536001  
 11 <140> CURRENT APPLICATION NUMBER: US 09/805,354  
 C--> 12 <141> CURRENT FILING DATE: 2002-06-04  
 14 <150> PRIOR APPLICATION NUMBER: US 09/758,493  
 15 <151> PRIOR FILING DATE: 2001-01-11  
 17 <150> PRIOR APPLICATION NUMBER: US 60/221,950  
 18 <151> PRIOR FILING DATE: 2000-07-31  
 20 <160> NUMBER OF SEQ ID NOS: 20  
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 191  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Homo sapiens  
 29 <400> SEQUENCE: 1  
 30 Cys Pro Gln Glu Asp Ser Asp Ile Ala Phe Leu Ile Asp Gly Ser Gly  
 31 1 5 10 15  
 32 Ser Ile Ile Pro His Asp Phe Arg Arg Met Lys Glu Phe Val Ser Thr  
 33 20 25 30  
 34 Val Met Glu Gln Leu Lys Lys Ser Lys Thr Leu Phe Ser Leu Met Gln  
 35 35 40 45  
 36 Tyr Ser Glu Glu Phe Arg Ile His Phe Thr Phe Lys Glu Phe Gln Asn  
 37 50 55 60  
 38 Asn Pro Asn Pro Arg Ser Leu Val Lys Pro Ile Thr Gln Leu Leu Gly  
 39 65 70 75 80  
 40 Arg Thr His Thr Ala Thr Gly Ile Arg Lys Val Val Arg Glu Leu Phe  
 41 85 90 95  
 42 Asn Ile Thr Asn Gly Ala Arg Lys Asn Ala Phe Lys Ile Leu Val Val  
 43 100 105 110  
 44 Ile Thr Asp Gly Glu Lys Phe Gly Asp Pro Leu Gly Tyr Glu Asp Val  
 45 115 120 125  
 46 Ile Pro Glu Ala Asp Arg Glu Gly Val Ile Arg Tyr Val Ile Gly Val  
 47 130 135 140  
 48 Gly Asp Ala Phe Arg Ser Glu Lys Ser Arg Gln Glu Leu Asn Thr Ile  
 49 145 150 155 160  
 50 Ala Ser Lys Pro Pro Arg Asp His Val Phe Gln Val Asn Asn Phe Glu  
 51 165 170 175  
 52 Ala Leu Lys Thr Ile Gln Asn Gln Leu Arg Glu Lys Ile Phe Ala  
 53 180 185 190  
 56 <210> SEQ ID NO: 2

## RAW SEQUENCE LISTING

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Input Set : A:\SEQUENCE LISTING.txt

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57 &lt;211&gt; LENGTH: 191

58 &lt;212&gt; TYPE: PRT

59 &lt;213&gt; ORGANISM: Homo sapiens

61 &lt;400&gt; SEQUENCE: 2

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62 Cys Pro Arg Gln Glu Gln Asp Ile Val Phe Leu Ile Asp Gly Ser Gly
63   1           5           10           15
64 Ser Ile Ser Ser Arg Asn Phe Ala Thr Met Met Asn Phe Val Arg Ala
65           20           25           30
66 Val Ile Ser Ser Gln Phe Gln Arg Pro Ser Thr Gln Phe Ser Leu Met Gln
67           35           40           45
68 Phe Ser Ser Asn Lys Phe Gln Thr His Phe Thr Phe Glu Glu Phe Arg Arg
69           50           55           60
70 Thr Ser Asn Pro Leu Ser Leu Leu Ala Ser Val His Gln Leu Gln Gly
71  65           70           75           80
72 Phe Thr Tyr Thr Ala Thr Ala Ile Gln Asn Val Val His Arg Leu Phe
73           85           90           95
74 His Ala Ser Tyr Gly Ala Arg Arg Asp Ala Thr Lys Ile Leu Ile Val
75           100          105          110
76 Ile Thr Asp Gly Lys Lys Glu Gly Asp Ser Leu Asp Tyr Lys Asp Val
77           115          120          125
78 Ile Pro Met Ala Asp Ala Ala Gly Ile Ile Arg Tyr Ala Ile Gly Val
79           130          135          140
80 Gly Leu Ala Phe Gln Asn Arg Asn Ser Trp Lys Glu Leu Asn Asp Ile
81 145           150          155          160
82 Ala Ser Lys Pro Ser Gln Glu His Ile Phe Lys Val Glu Asp Phe Asp
83           165          170          175
84 Ala Leu Lys Asp Ile Gln Asn Gln Leu Lys Glu Lys Ile Phe Ala
85           180          185          190

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87 &lt;210&gt; SEQ ID NO: 3

88 &lt;211&gt; LENGTH: 191

89 &lt;212&gt; TYPE: PRT

90 &lt;213&gt; ORGANISM: Homo sapiens

92 &lt;400&gt; SEQUENCE: 3

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93 Cys Pro His Gln Glu Met Asp Ile Val Phe Leu Ile Asp Gly Ser Gly
94   1           5           10           15
95 Ser Ile Asp Gln Asn Asp Phe Asn Gln Met Lys Gly Phe Val Gln Ala
96           20           25           30
97 Val Met Gly Gln Phe Glu Gly Thr Asp Thr Leu Phe Ala Leu Met Gln
98           35           40           45
99 Tyr Ser Asn Leu Leu Lys Ile His Phe Thr Phe Thr Gln Phe Arg Thr
100          50           55           60
101 Ser Pro Ser Gln Gln Ser Leu Val Asp Pro Ile Val Gln Leu Lys Gly
102  65           70           75           80
103 Leu Thr Phe Thr Ala Thr Gly Ile Leu Thr Val Val Thr Gln Leu Phe
104           85           90           95
105 His His Lys Asn Gly Ala Arg Lys Ser Ala Lys Lys Ile Leu Ile Val
106           100          105          110
107 Ile Thr Asp Gly Gln Lys Tyr Lys Asp Pro Leu Glu Tyr Ser Asp Val
108          115          120          125

```

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Input Set : A:\SEQUENCE LISTING.txt

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```

109 Ile Pro Gln Ala Glu Lys Ala Gly Ile Ile Arg Tyr Ala Ile Gly Val
110      130                      135                      140
111 Gly His Ala Phe Gln Gly Pro Thr Ala Arg Gln Glu Leu Asn Thr Ile
112 145                      150                      155                      160
113 Ser Ser Ala Pro Pro Gln Asp His Val Phe Lys Val Asp Asn Phe Ala
114                      165                      170                      175
115 Ala Leu Gly Ser Ile Gln Lys Gln Leu Gln Glu Lys Ile Tyr Ala
116                      180                      185                      190
118 <210> SEQ ID NO: 4
119 <211> LENGTH: 184
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 4
124 Cys Ile Lys Gly Asn Val Asp Leu Val Phe Leu Phe Asp Gly Ser Met
125 1                      5                      10                      15
126 Ser Leu Gln Pro Asp Glu Phe Gln Lys Ile Leu Asp Phe Met Lys Asp
127      20                      25                      30
128 Val Met Lys Lys Leu Ser Asn Thr Ser Tyr Gln Phe Ala Ala Val Gln
129      35                      40                      45
130 Phe Ser Thr Ser Tyr Lys Thr Glu Phe Asp Phe Ser Asp Tyr Val Lys
131      50                      55                      60
132 Trp Lys Asp Pro Asp Ala Leu Leu Lys His Val Lys His Met Leu Leu
133 65                      70                      75                      80
134 Leu Thr Asn Thr Phe Gly Ala Ile Asn Tyr Val Ala Thr Glu Val Phe
135      85                      90                      95
136 Arg Glu Glu Leu Gly Ala Arg Pro Asp Ala Thr Lys Val Leu Ile Ile
137      100                     105                     110
138 Ile Thr Asp Gly Glu Ala Thr Asp Ser Gly Asn Ile Asp Ala Ala Lys
139      115                     120                     125
140 Asp Ile Ile Arg Tyr Ile Ile Gly Ile Gly Lys His Phe Gln Thr Lys
141      130                     135                     140
142 Glu Ser Gln Glu Thr Leu His Lys Phe Ala Ser Lys Pro Ala Ser Glu
143 145                     150                     155                     160
144 Phe Val Lys Ile Leu Asp Thr Phe Glu Lys Leu Lys Asp Leu Phe Thr
145      165                     170                     175
146 Glu Leu Gln Lys Lys Ile Tyr Val
147      180
149 <210> SEQ ID NO: 5
150 <211> LENGTH: 195
151 <212> TYPE: PRT
152 <213> ORGANISM: Homo sapiens
154 <400> SEQUENCE: 5
155 Cys Ser Thr Gln Leu Asp Ile Val Ile Val Leu Asp Gly Ser Asn Ser
156 1                      5                      10                      15
157 Ile Tyr Pro Trp Asp Ser Val Thr Ala Phe Leu Asn Asp Leu Leu Lys
158      20                      25                      30
159 Arg Met Asp Ile Gly Pro Lys Gln Thr Gln Val Gly Ile Val Gln Tyr
160      35                      40                      45
161 Gly Glu Asn Val Thr His Glu Phe Asn Leu Asn Lys Tyr Ser Ser Thr

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TIME: 14:03:07

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF3\06112002\I805354.raw

```

162      50      55      60
163 Glu Glu Val Leu Val Ala Ala Lys Lys Ile Val Gln Arg Gly Gly Arg
164 65      70      75      80
165 Gln Thr Met Thr Ala Leu Gly Thr Asp Thr Ala Arg Lys Glu Ala Phe
166      85      90      95
167 Thr Glu Ala Arg Gly Ala Arg Arg Gly Val Lys Lys Val Met Val Ile
168      100     105     110
169 Val Thr Asp Gly Glu Ser His Asp Asn His Arg Leu Lys Lys Val Ile
170      115     120     125
172 Gln Asp Cys Glu Asp Glu Asn Ile Gln Arg Phe Ser Ile Ala Ile Leu
173      130     135     140
174 Gly Ser Tyr Asn Arg Gly Asn Leu Ser Thr Glu Lys Phe Val Glu Glu
175 145     150     155     160
176 Ile Lys Ser Ile Ala Ser Glu Pro Thr Glu Lys His Phe Phe Asn Val
177      165     170     175
178 Ser Asp Glu Leu Ala Leu Val Thr Ile Val Lys Thr Leu Gly Glu Arg
179      180     185     190
180 Ile Phe Ala
181      195
183 <210> SEQ ID NO: 6
184 <211> LENGTH: 195
185 <212> TYPE: PRT
186 <213> ORGANISM: Homo sapiens
188 <400> SEQUENCE: 6
189 Cys Pro Ser Leu Ile Asp Val Val Val Val Cys Asp Glu Ser Asn Ser
190 1      5      10      15
191 Ile Tyr Pro Trp Asp Ala Val Lys Asn Phe Leu Glu Lys Phe Val Gln
192      20      25      30
193 Gly Leu Asp Ile Gly Pro Thr Lys Thr Gln Val Gly Leu Ile Gln Tyr
194      35      40      45
195 Ala Asn Asn Pro Arg Val Val Phe Asn Leu Asn Thr Tyr Lys Thr Lys
196      50      55      60
197 Glu Glu Met Ile Val Ala Thr Ser Gln Thr Ser Gln Tyr Gly Gly Asp
198 65      70      75      80
199 Leu Thr Asn Thr Phe Gly Ala Ile Gln Tyr Ala Arg Lys Tyr Ala Tyr
200      85      90      95
201 Ser Ala Ala Ser Gly Gly Arg Arg Ser Ala Thr Lys Val Met Val Val
202      100     105     110
203 Val Thr Asp Gly Glu Ser His Asp Gly Ser Met Leu Lys Ala Val Ile
204      115     120     125
205 Asp Gln Cys Asn His Asp Asn Ile Leu Arg Phe Gly Ile Ala Val Leu
206      130     135     140
207 Gly Tyr Leu Asn Arg Asn Ala Leu Asp Thr Lys Asn Leu Ile Lys Glu
208 145     150     155     160
209 Ile Lys Ala Ile Ala Ser Ile Pro Thr Glu Arg Tyr Phe Phe Asn Val
210      165     170     175
211 Ser Asp Glu Ala Ala Leu Leu Glu Lys Ala Gly Thr Leu Gly Glu Gln
212      180     185     190
213 Ile Phe Ser

```

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/805,354

TIME: 14:03:07

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF3\06112002\I805354.raw

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214          195
216 <210> SEQ ID NO: 7
217 <211> LENGTH: 195
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 7
222 Cys Pro Thr Tyr Met Asp Val Val Ile Val Leu Asp Gly Ser Asn Ser
223   1          5          10          15
224 Ile Tyr Pro Trp Ser Glu Val Gln Thr Phe Leu Arg Arg Leu Val Gly
225          20          25          30
226 Lys Leu Phe Ile Asp Pro Glu Gln Ile Gln Val Gly Leu Val Gln Tyr
227          35          40          45
229 Gly Glu Ser Pro Val His Glu Trp Ser Leu Gly Asp Phe Arg Thr Lys
230          50          55          60
231 Glu Glu Val Val Arg Ala Ala Lys Asn Leu Ser Arg Arg Glu Gly Arg
232  65          70          75          80
233 Glu Thr Lys Thr Ala Gln Ala Ile Met Val Ala Cys Thr Glu Gly Phe
234          85          90          95
235 Ser Gln Ser His Gly Gly Arg Pro Glu Ala Ala Arg Leu Leu Val Val
236          100         105         110
237 Val Thr Asp Gly Glu Ser His Asp Gly Glu Glu Leu Pro Ala Ala Leu
238          115         120         125
239 Lys Ala Cys Glu Ala Gly Arg Val Thr Arg Tyr Gly Ile Ala Val Leu
240          130         135         140
241 Gly His Tyr Leu Arg Arg Gln Arg Asp Pro Ser Ser Phe Leu Arg Glu
242 145          150         155         160
243 Ile Arg Thr Ile Ala Ser Asp Pro Asp Glu Arg Phe Phe Phe Asn Val
244          165         170         175
245 Thr Asp Glu Ala Ala Leu Thr Asp Ile Val Asp Ala Leu Gly Asp Arg
246          180         185         190
247 Ile Phe Gly
248          195
250 <210> SEQ ID NO: 8
251 <211> LENGTH: 193
252 <212> TYPE: PRT
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 8
256 Cys Gln Thr Tyr Met Asp Ile Val Ile Val Leu Asp Gly Ser Asn Ser
257   1          5          10          15
258 Ile Tyr Pro Trp Val Glu Val Gln His Phe Leu Ile Asn Ile Leu Lys
259          20          25          30
260 Lys Phe Tyr Ile Gly Pro Gly Gln Ile Gln Val Gly Val Val Gln Tyr
261          35          40          45
262 Gly Glu Asp Val Val His Glu Phe His Leu Asn Asp Tyr Arg Ser Val
263          50          55          60
264 Lys Asp Val Val Glu Ala Ala Ser His Ile Glu Gln Arg Gly Gly Thr
265  65          70          75          80
266 Glu Thr Arg Thr Ala Phe Gly Ile Glu Phe Ala Arg Ser Glu Ala Phe
267          85          90          95

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/805,354

DATE: 06/11/2002

TIME: 14:03:08

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF3\06112002\I805354.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date